## Homework 6: Logical Operators

CS 1323 Fall 2023

Name:	·	
Studer	nt ID (usually 112-XXX-XXXX or 113-XXX-XXXX):	
1.	(15 points; 3 points each part) Given the variable assignments below, is each logical of true or false? If the statement is not legal in Java, say so. Show your work step by stealone will not receive credit since they can be calculated by eclipse. If a logical oper shortcuts, say so.	ep. Answers
int littl	e = 6;	
int big	= 2;	
int size	21 = 5;	
int size	2 = 9;	
a) (littl	e > big) && (size2 > big)	
<u>b) size</u>	1 < size2    big < little && size2 == big	
c)!litt	le < big	
d) little	e < size1    little < size2    little > big	
0) 0 <-	size1 <= 10	
e) 0 <=	- 21767 /- 10	
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2.	(5 points; 3 points each for a) and 2 points for b)) Translate each statement below into a boolean expression that is legal in Java. Use the given variable. Pay careful attention to boundary conditions (e.g. < versus <=). Make your expressions as clear and simple to understand as possible, using DeMorgan's Law if necessary.	
int percent;		
a)	percent is either odd and between 90 and 100 or percent is even and between 80 and 90.	
b) percent is not between 0 and 100 (inclusive)		